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Mapping the 'intellectual structure' of research on human resources in the 'tourism and hospitality' management scientific domain: reviewing the field and shedding light on future directions

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Abstract:

Purpose - The purpose of this paper –based on the conviction that the human resource is by far the most strategic or distinctive resource available to firms competing in *hospitality* and *tourism industries*– is to objectively analyze the research on HR developed in the domain of *tourism and hospitality* management between 1997-2016.

Design/methodology/approach – ‘Bibliometric’ methods are utilized: ‘document citation and co-citation analyses’, as well as ‘multivariate and social network analyses (SNA).’

Findings - The paper provides an interesting inventory of the theoretical foundations of knowledge developed around HR in the field under study by different theoretical frameworks and scientific disciplines, such as *marketing* or *psychology*. However, its main contribution is to identify an important ‘*gap*’ in the literature in the specific area of *management*.

Research limitations/implications - The present study has several limitations resulting from the utilization of ‘bibliometric’ methods applied in the analyses performed. As for the implications, these are more than obvious.

Originality/value - The authors believe that research developed here provides –through a kind of ‘meta-analysis’– a valuable outlet from which future researchers could benefit, giving them easier access to the theoretical foundations on which HR research in the field in question is based. Our work also suggests some paths for future development or research in the field within the context of *hospitality* and *tourism industries*.

Keywords Human resources, Hospitality and tourism industries, Bibliometrics, Social network analysis (SNA), Citation analysis, Document co-citation analysis (DCA),

Paper type Research paper

Introduction

Human resources (HR) are by far the most strategic or distinctive type of resource available to firms competing in *hospitality* and *tourism industries*. Indeed, from the RBV *of the firm*, the achievement of competitive advantages largely depends on the availability of sufficient as well as distinctive resources and capabilities to face the possible threats from the business environment. Among the most valuable resources for firms competing in the hospitality industry are HR, on whose skills, training and experience the chances of firm success very often depend (Collins, 2007; Kusluvan et al., 2010). In turn, capabilities –including *dynamic capabilities*– are understood as collective competencies or skills developed internally from organizational routines. In this respect, it seems more than evident that human resources play a predominant role in the creation of such organizational routines and capabilities. Similarly, as stated by Kusluvan et al. (2010, p. 172) “models developed in

the service management literature, such as the gap model of service quality (Parasuraman et al., 1985), the service profit chain model (Heskett et al., 1994), and many others (see Ghobadian et al., 1994), acknowledge the role employees may play in service quality, customer satisfaction, and organizational performance.”

However, what do we really know about research developed in the last two decades in the field of HR with regard to the industries mentioned above? Does it have a multidisciplinary nature? Which contributions have received the highest number of citations during the period analyzed and can consequently be considered the most influential in the future consolidation and evolution of the field under study? Which cognitive or intellectual structure underpins such research? Is it possible to identify some sort of *gap* in the literature? Which are the future directions towards which the field might move?

Given the crucial importance of the human factor and its suitable management in the success of both corporate and business strategies of any firm in whatever industry, and even more so in *hospitality* and *tourism industries*, and starting from the assumption that the future advancement of a field “is, to a large degree, dependent upon existing scholarship and the work of contemporary contributors generating new knowledge” (Griffith et al., 2008, p. 1220), the aim of this research is to try to answer the preceding questions mapping the ‘knowledge base’ or ‘cognitive structure’ of research on HR developed in the scientific domain of ‘*tourism*’ and ‘*hospitality*’ management. More precisely, and seeking to achieve our aim, a total of 108 research papers on HR published in the three journals on *tourism* and *hospitality management* included in the Journal Citation Report© (JCR) within the *management* category – “*Tourism Management*”, “*Cornell Hospitality Quarterly*”, and “*International Journal of Contemporary Hospitality Management*”, with impact factors of 4.707, 2.657 and 3.166, respectively (2016 JCR Social Sciences Edition)– between 1997 and 2016 –until the database consultation date– were analyzed. The analysis uses various analytical instruments, such as ‘social network analysis (SNA)’, ‘document citation and co-citation analyses’, as well as some techniques of multivariate analysis, among which cluster analysis deserves special mention.

These two analysis methods –citation and co-citation analyses of *authors*, *documents*, *keywords*, *etc.*– have been applied not only in other management fields but also in very recent studies developed in the fields of hospitality and tourism, as well as in human resources (Cheng, 2016; Köseoglu et al., 2016a, b; Markoulli et al., 2017; Okumus et al., 2017), but in a separate manner; hence the interest of this research. Also, based on the conviction that understanding past patterns in the literature can allow us to design future research directions, our paper provides both an interesting inventory of research on HR in the tourism and hospitality management domain and possible directions that such research could take in the future.

Our investigation is structured as follows. After this introduction, Section 2 adopts the format of a ‘literature review’ to argue the utility and stages of the analysis techniques mentioned above –‘co-citation analysis’ in particular– when it comes to evaluating scientific literature. The next section –Section 3– is about the systematic gathering of “data” and the “methodology” applied. The result of document citation and co-citation analyses (DCA), a reticular representation of the ‘*pillars*’ or ‘intellectual’ or knowledge’ base of the field under scrutiny or, as well as the outcomes of the multivariate and social network analyses (SNA), are shown in Section 4. The last section –Section 5– summarizes the principal conclusions, implications, and future lines of research as well as the limitations faced in research undertaken.

Literature review

In recent years, academic literature has experienced a great amount of research which has as their main goal to explore the “intellectual structure” of domains other than the discipline, called

scientometrics, dedicated “to the study of measuring and analyzing science, technology and innovation”. These “works” apply some of the analytical techniques and methods often used by this scientific discipline –“co-word analysis”, “citation and co-citation analyses of authors or documents”, “journal co-citation analysis”, SNA, etc.– in order to analyze and visualize the ‘cognitive structure’ or ‘knowledge base’; detect the presence of the “so-called” ‘scientific schools’ or ‘invisible colleges’ and ‘academic networks’ (Crane, 1972); identify possible ‘fronts of research’ (de Solla Price, 1965); or carry out studies on authorship, production, patterns of collaboration and citation/co-citation, etc., regarding a scientific domain or discipline.

In general, it can be established that, as a ‘discipline’ advances and achieve to reach a certain level of development, the fascination to know the ‘state-of-the-art’ often grows among its scholars and investigators who thus, seek to comprehend –through analysis of research carry out by a great amount of authors on a given theme– which contributions have had a higher influence on its evolution or have managed to capture the greatest attention of the researchers.

In effect, as disciplines evolve the output of scientific work increases. “It is then common for scholars to periodically seek to make some sense of the knowledge produced and accumulated, to identify novel contributions, detect trends and research traditions, understand which topics are addressed, the theories and methods employed, delve into the intellectual structure of the discipline and its knowledge base, and prospect areas of future inquiry” (Portugal-Ferreira et al., 2014, p. 1902). The academic literature makes it possible to find a considerable amount of studies oriented to try to characterize and analyze the different ‘fronts of research’ detected within a field or scientific domain. Nevertheless, it is worth highlighting that most of the aforementioned contributions –whose nature is ‘qualitative’ in essence– frequently come as a product of the ‘reflections’ or ‘critical judgment’ of one or more researchers supported on the accumulated knowledge that they own about the domain or discipline itself”. A possibility therefore exists of falling into a “lack of scientific rigor” and a “high degree of subjectivity” in their interpretations.

Even though it is positioned within the above type of studies; or, expressed differently, focused on the identification of existing ‘research fronts’ within a scientific field or domain, the investigation undertaken here adopts however –unlike most of the contributions mentioned so far– a ‘quantitative’ perspective to reach its aims, thus introducing a measure of ‘objectivity’ in the process of evaluation of scientific literature, namely: the “analysis of co-citation”.

Introduced in 1973 by Henry Small, ‘co-citation analysis’ starts from the premise that between two documents which are co-cited there would be a certain ‘thematic affinity’, as well as a ‘cognitive connection’ in relation to the “domain” or “field” examined; and that the higher the frequency with which these documents are cited jointly, the greater the similarity or relationship existing between them will be (Cawkell, 1976; Garfield, 1978), it being possible to regard this documents as pertaining to the same ‘research front’. Obviously, the intensity of the aforesaid relationship or linkage is provided by the amount of source documents containing the same pair of cited documents among their references” (García-Lillo et al., 2016, p. 1035). If it is assumed, as Small (1973, p. 265) point out, that highly-cited contributions symbolize the key ideas, experiments or methodologies developed in a discipline, these patterns of co-citation could be utilized to map out in great detail, the relationship between these key ideas.

Figure 1 exhibits the “stages” that the analytical technique mentioned above consists of, but understanding the method from a “general” perspective or, in other words, not focusing the attention exclusively on document co-citation analysis (DCA).

Figure 1. Insert about here

Methodology

Data source and the sample of documents

The primary data base used to obtain the source documents for the realization of the present research was the ‘Social Sciences Citation Index’ (SSCI), powered by the *Institute for Scientific Information* (ISI), founded by Eugene Garfield in 1960.

Accordingly, to “characterize” and “visualize” the cognitive structure or knowledge base of research on HR in the realm of *tourism* and *hospitality* management, we analyze a total of 108 manuscripts published in the journals: “*Tourism Management*”, “*Cornell Hospitality Quarterly*”, and “*International Journal of Contemporary Hospitality Management*” between 1997 and 2016. Figure 2 shows the journals where the papers appear, by year of publication.

Figure 2. Insert about here

In particular, these documents contained in total 6,518 cited references, with an average of 60.35 citations by paper. The distribution of frequencies for the aforementioned ‘references’, according to the publication year, can be seen in Figure 3.

Figure 3. Insert about here

The database consultation date was October 3rd 2016. The ‘search equation’ used was the expression: ‘HUMAN RESOURC*’ in the field ‘TOPIC’ of Web of Science (WoS) for each of the journals examined.

Bibexcel® and the treatment of bibliographic records

The retrieved documents were analyzed through Bibexcel®, a software specifically developed to handle bibliographic records. Bibexcel® offers, among many other features or functionalities, the possibility to analyze “in combination”, within a same record, the information extracted from diverse fields –also, the field of references–, carrying out counts by frequency, analyzing co-occurrence between different units of analysis –“*keywords*”, “*documents*”, “*authors*”, “*journals*”– as well as the appliance of the technique of “*bibliographic coupling*.”

In our investigation, Bibexcel® was utilized to perform not only the counts by frequency of the citations included in the papers that integrate the sample –a total of 108 papers– but also to generate the ‘document co-citation matrix’. The ‘intellectual structure’ of the field under examination from the perspective offered by ‘social network analysis (SNA)’ was approached using the “matrices” obtained through Bibexcel® proceeding with their visualization by means of VOSviewer®. The software UCINET® 6 *for Windows* was also used to obtain different network “indicators”, all of them related to social network analysis (SNA). Finally, the different multivariate techniques of analysis carried out were evolved using the “package” IBM® SPSS® Statistics v.24.

It is worth highlighting at this point that analysis of scientific maps cannot be applied to the gross data retrieved from Web of Science (WoS) or Scopus (García-Lillo et al., 2017a); a “pre-processing” of the information is necessary, since the data usually contain inconsistencies and errors, mainly in regards to its “coding”. On some occasions, there are elements which symbolize the same object. This is, for example, the case of the name of an author or the title of a journal which might appear codified or written in a considerable “diversity of modes” (Cornell Hosp Q or Cornell Hospitality Quarterly; Huselid, M or Huselid, Mark A) or the diverse “editions” of a unique book. Hence, why data contained in the field of cited references underwent a “careful” normalization process in order to ensure their accuracy.

Document selection and the calculation of the co-citation and proximity matrices

With regard to the selection of the documents to be introduced in our analysis, the impossibility to work with all data and the need to establish a cut-off point to select the most influential works, led us to the decision to consider the documents cited at least 3 times, thus generating a “co-citation matrix”, C , of dimensions 164×164 , which would show the “number of times” –“raw co-citation counts”– in which the aforementioned documents, considered in pairs, were “co-cited” by the ‘source’ or ‘citing’ papers analyzed.

The next step, once the above matrix C has been calculated, consists in achieving a “proximity matrix” on which there is a possibility to apply multivariate techniques of analysis trying to diminish the “dimensionality” of data, Pearson’s r correlation coefficient being, in spite of the “criticisms” received, one of the “between pairs” similarity measures most often used among a wide range of possible strategies of “normalization.”

In the investigation developed here, and because of our particular interest in applying social network analysis (SNA) as the priority technique of analysis to obtain the aforementioned “proximity” or “similarity matrix” –which will be referred to as matrix S_1 – a decision was made to use the software VOSviewer® at first. This software is a freely available computer program specifically designed for constructing and representing large maps of scientific knowledge paying singular attention to their graphical visualization. The tool has been developed at the University of Leiden, the oldest university in the Netherlands, by the “*Centrum voor Wetenschap en Technologie Studies Studies* (CWTS)” and can be used free of charge. The positioning of elements on the map is carried out through the VOS positioning technique, which constructs a “proximity or similarity matrix” as of a “co-occurrence matrix” by using a value known as “*association strength*” as the measure of normalization. The VOS technique builds a two-dimensional map where the analyzed units –*authors, documents, words, journals, etc.*– are placed just like that the distance between each pair of them accurately reveals its similarity level. On the “map” each “unit” is depicted through a tag and a circle. The more significant a unit is, the greater the tag and the area of its circle. The software also exhibits the “clusters” into which such “units” are integrated according to the “proximity” or “probabilistic affinity index” (PAI) calculated, each “cluster” being identified through the use of a different color in their reticular representation.

The results obtained in the previous analysis –concerning the identification of the various clusters– were validated by means of multivariate analysis using the statistical package IBM® SPSS® Statistics v.24. In particular, a hierarchical clustering analysis was performed on the data contained in a second similarity matrix, S_2 . To construct this matrix, we decided not to utilize “Pearson’s r coefficient”, instead we used a “relative” value known as CoCit-Score (Gmür, 2003), as “measure” to achieve a “similarity matrix”, S_2 , in such a way that the “similarity” between each couple of documents (P_i, P_j) would be obtained by their “absolute frequency of co-citation” normalized in relation to the “mean” and the “minimum” of citations reached by each one considered independently:

$$S_{ij} = \frac{C_{ij}^2}{\min(C_{ii}, C_{jj}) \times \text{mean}(C_{ii}, C_{jj})}$$

Each entry S_{ij} is now contained in the “range” [0, 1], where a “high” score of S_{ij} is indicative of a “strong similarity” between pairs.

Note that the “entries” C_{ii} located on the “main diagonal” of matrix S_2 would be made to correspond with the amount of citations obtained by “paper” P_i .

The analysis is completed with the use of the software UCINET® 6 for Windows by means of which –despite not being utilized to represent the matrix S_2 – several network “indicators”, mainly referring to the degree of centrality, closeness and betweenness, between the various nodes, so that the network can be properly characterized, were calculated.

Results and discussion

The outcomes achieved once the different “stages” or “phases” comprised in analyses that have been developed are provided below.

Table 1 exhibits an “inventory” of the 164 most-cited documents by the 108 articles on HR published during the period under examination in the three leading journals examined –“*Tourism Management*”, “*Cornell Hospitality Quarterly*”, and “*International Journal of Contemporary Hospitality Management*”– resulting of our citation analysis.

Table 1. Insert about here

The “descriptive” analysis of the documents mentioned above provides the following “research” results:

1) The book –in its different “editions”– by Hair et al. (1998) and the paper by Baron and Kenny (1986) top the ranking of most-cited documents with 21 and 14 citations.

2) In this order, “the papers or books of Anderson and Gerbing (1988), Fornell and Larcker (1981), Nunnally (1978), Bagozzi and Yi (1988), Podsakoff et al. (2003), Kusluvan et al. (2010), Jöreskog and Sörbom (1996) and Heskett et al. (1994), Delery and Doty (1996), Parasuraman et al. (1988), Huselid (1995) and Hartline and Ferrell (1996)” –the last five research papers being tied on 7 citations each– complete the top ten.

3) Finally, with regard to the total number of most-cited documents, 132 “papers”, 2 “chapters in books”, and 30 “books” comprises “the list”.

Table 2 shows the “journals” where the aforesaid “papers” were published.

Table 2. Insert about here

In particular, we can observe that a considerable percentage of this “papers” has been published in the “journal” under examination: “*International Journal of Contemporary Hospitality Management*” (18.18%). The second place in order of importance corresponds to the articles published in “*International Journal of Hospitality Management*” (12.12%), the third position being occupied by those appearing in “*Tourism Management*” (8.33%). As for the rest of “papers”, two other journals – “*Journal of Marketing*” (7.58%) and “*Cornell Hotel & Restaurant Administration Quarterly*” (7.58%) – account for another 15% of the total, a percentage that goes up to “nearly” 30% if “papers” published in “*Journal of Applied Psychology*” (4.55%), “*The Academy of Management Journal*” (4.55%), and “*Cornell Hospitality Quarterly*” (3.78%) are considered. Among the rest of the publishing journals of the remaining 33.33% mentioned in Table 2 are journals such as “*Journal of Marketing Research*”, “*The Academy of Management Review*” or “*Psychological Bulletin*”.

As for the results of the “document co-citation analysis (DCA)” carry out, the application of “the VOS positioning technique” through VOSviewer® –bearing in mind that this analytical “technique” lets to build a “similarity matrix”, *S*, as of a “co-occurrence matrix”– allowed us to obtain the results specified below.

Figure 4 exhibits a visual representation of the “cognitive structure” of research on HR undertaken in the scientific domain of *tourism* and *hospitality* management.

Figure 4. Insert about here

In particular, and regardless of works linked to data analysis –such as those written by Hair et al. (1998), Baron and Kenny (1986) or Fornell and Larcker (1981), which hold central positions, or others such as those of Anderson and Gerbing (1988) or Podsakoff et al. (2003), situated more to the right on the graph– as well as of others considered essential in the research focused on HRM, including those of Huselid (1995), Delery and Doty (1996), Pfeffer (1994), Delaney and Huselid (1996) or Arthur (1994), another three clusters emerge during the analyses developed, namely: 1) the works of Riley et al. (2002), Lucas (2004), Esichaikul and Baum (1998), Baum et al. (1997) or Wong and Ko (2009), among others, appear in purple. These papers are also identified in the hierarchical clustering analysis applied on Matrix *S*₂, though divided into two groups. A first subgroup brings together the studies by Esichaikul and Baum (1998), Baum (1994) or Baum et al. (1997) and their book: “*Policy Dimensions of Human Resource Management in the Tourism and Hospitality Industries*.” All of these works deal with the political dimension and the involvement of governments in the development of HR in a sector like the tourism industry, which has so much relevance in terms of employment and contribution to the GDP in many countries. The second subgroup is divided into two groups: a first subgroup brings together the works of Szivas et al. (2003), Szivas and Riley (1999) and Riley et al. (2002) about *Employment and Tourism*; for its part, the second subgroup gathers the papers written by Choy (1995), Wong and Ko (2009), Riley et al. (1998), Lucas (2004) and Baum (2006) on labor relations, *employees’ perception of WLB*, *organizational commitment*, or tourism employment quality. In their research about employees’ perceptions in relation to work-life balance issues, Wong and Ko (2009, p. 202) propose, for example, “an effective management system and culture that enables employees to reconcile their personal and family matters more effectively”; 2) the nodes represented in light blue identify the works of Kay and Russette (2000), Boyatzis (1982), Sandwith (1993), Tas (1988) or Fjelstul and Tesone (2008), among others. As in the previous case, these papers are divided into two groups in the cluster analysis. Those by Okeiyi et al. (1994), Tas (1988), Kay and Russette (2000), Tas et al. (1996), and Sandwith (1993) form the first group. The second group brings together the papers written by Fjelstul and Tesone (2008), Asree et al. (2010) and Boyatzis (1982). Attention is paid to the managerial skills required for managers to be competent and to achieve a successful performance in all of these works; and 3) shown in yellow are the works of

Mary Jo Bitner (1990), Bettencourt and Brown (1997), Morgan and Hunt (1994) or Oliver (1997), to quote but a few. The focus in all these studies –from a *marketing* perspective– is placed on issues associated with the link between customer satisfaction and delivered service quality, and relationship marketing or the *Commitment-Trust Theory of Relationship Marketing* proposed by Morgan and Hunt (1994). The hierarchical clustering analysis also identifies such works as belonging to the same cluster.

Effectively, with regard to the above, we can highlight that the hierarchical clustering analysis identifies the existence of certain subgroups in relation to some of the groups identified through the implementation of the VOS positioning technique. We can also identify clusters in the group of works considered crucial in the HRM literature, such as those written by Huselid (1995) or Delery and Doty (1996). An example is the cluster that includes the works of Solnet and Hood (2008), Chen and Choi (2008) and Lucas and Deery (2004) about the differences in work values across three generations of managers and supervisors in the hospitality industry or other generational issues around the social segment of the so-called ‘*millennials*’ as hospitality employees. Or the cluster including the studies of Barron (2008) or Hughes and Rog (2008) about *talent management*. The works of Mathieu and Zajac (1990), Allen and Meyer (1990), Meyer and Allen (1991) and Meyer et al. (1993), focused on *organizational commitment* can also be identified as a potential subgroup within this cluster.

However, the analysis developed and the identified “intellectual structure” has certain drawbacks due to the absence of key works on essential analytical perspectives within the field of *strategic management*, such as the *dynamic capabilities* approach or works from the *organization theory* and related to *organizational learning* or *organizational ambidexterity*. This clearly reveals the scarcity of works devoted to the role that HR and their adequate strategic management –HR are sometimes an obstacle and, on other occasions, they act as true drivers in the development of new capabilities– or organizational learning itself as well as the investment in human capital as the ultimate support of knowledge in the firm can play in the development of dynamic capabilities that favor both change and adaptation of industry firms to the business environment or the development of ambidextrous organizations (Patel et al., 2013; Swart et al., 2016; Úbeda-García et al., 2016; among others). By way of example, organizational learning can be understood as a basic capability to develop other dynamic capabilities, such as proactive environmental management, which have proved to be so important in *hospitality* and *tourism industries*.

In short, it is our conviction that the analysis undertaken provides an interesting inventory of HR knowledge developed in the *tourism* and *hospitality management* domain. Nevertheless, and perhaps more importantly, it identifies a possible “gap” in the literature, curiously enough in the area of *management* compared to other disciplines. And that, although the ‘journals’ examined occupy “relevant” positions in the *management* category of the Journal Citation Report®.

The study carried out supplies a relatively deep understanding of the intellectual base of the field under study, enabling us to infer the nature of research developed therein, which in turn tells us, to some extent, where we stand at present. It additionally gives scholars and researchers the chance to identify possible research opportunities for the future derived from: 1) the observation of certain contradictions between the evidence found and the researcher’s own intuition; 2) the existence of barely related subfields –in terms of their theoretical bases or structures– between which an integration process could begin. Figure 4 shows, for example, that there is little relationship between the theoretical foundations of research into *labor relations*, *employees’ perception of WLB* or *organizational commitment* and research on HRM developed in the area of *management*; and 3) the already-mentioned absence of key works dedicated, among other things, to fundamental analytical perspectives in the field of *strategic management*, which in turn shows the existence of significant theoretical gaps. Concerning this last issue, it is possible to detect the existence of such *gaps* with

regard to HRM research in the field of *management*, which encourage us to suggest some paths for future research within the context of *hospitality* and *tourism industries*.

Link between HRM and organizational performance

Firstly, future research developed in the field should try to come even closer to the topics most commonly investigated around HRM in the area of *management*; in short, seeking to understand the “mechanisms that lead HR policies and practices to influence unit-level performance” (Nyberg et al., 2014, p. 318). In this way, “scholars are interested in understanding how HRM initiatives affect the unit’s human capital, which, in turn, has an impact on performance” (Bowen and Ostroff, 2004; Huselid and Becker, 2011; among others). The bulk of research in HRM has focused on the liaison between “HRM practices” –HIWPS, high-commitment or performance-oriented work systems– and organizational performance. For instance, using a ‘meta-analytic approach’, Hong et al. (2014) point out that service-oriented HRM practices are more positively correlated with service climate than general HRM practices (Jackson et al., 2014, p. 29). In our opinion, such findings can revitalize attention in understanding ‘context-appropriate HRM systems’ relationship.

HRM, organizational capabilities, and strategic management

A number of intermediate variables play an important role in the causal relationship between HR and performance. Indeed, “employee responses are not the only mediating process through which HRM systems can help achieve competitive advantages” (Jackson et al., 2014, p. 24); HRM systems may also help develop “emergent capabilities” –including *dynamic capabilities*– which, “in turn, contribute to effectiveness and organizational performance”. As Jackson et al. (2014) point out, “several studies provide support for this view about the way in which HRM systems work” (p. 24). For instance, “network-building HRM systems can increase financial performance by promoting top management teams’ social capital” (Collins and Clark, 2003); HPWS can not only have an effect on financial performance by increasing employees’ flexibility to react when facing different strategies (Beltrán-Martí et al., 2013), but also develop social capital (Jiang and Liu, 2015) or organizational ambidexterity (Patel et al., 2013). This is yet another possible path to consolidate strategic HRM, an area scarcely developed within the context of tourism and hospitality.

The emphasis on human capital has enabled traditional HRM researchers to better connect with strategy researchers (Wright et al., 2014). Wright and McMahan (2011) noted that strategy researchers increasingly attend to human capital as a critical “strategic resource”, and yet they focus to a much lesser extent on the practices that acquire, motivate, develop, and retain that human capital. HRM researchers, however, stress the HRM practices-performance relationship rather than human capital itself. Consequently, bringing these two complementary perspectives and knowledge bases together can result in significantly greater progress than is likely to be obtained by these two fields progressing independently of one another (Nyberg et al., 2014).

Dynamic human resources nature and multilevel analysis

Precisely because of the dynamic nature of HR and because the composition of work systems will probably lead to different results depending on the context, authors have insisted above on the importance of better understanding the relationship –HR systems should be regarded as a relational construct– between the context and the suitability of these HR systems for *hospitality* and *tourism industries*. This forces scholars to take into account the linkage between “individual”, “organizational”, “institutional”, and “national” or “international” contexts that shape human resources. Although the field of HRM began with a focus on the organization level of analysis, its evolution has led researchers to increasingly recognize the requisite multilevel nature of all aspects. The

field has evolved to increasingly recognize that the phenomena we study “cross organizational, unit, and individual actors” (Wright and Ulrich, 2017).

Empirical research has more and more often brought multilevel analyses to bear. Studies such as those carried out by Nishii et al. (2008) or den Hartog et al. (2013) have simultaneously addressed organization and individual-level data. Nevertheless, it is our opinion that these multi-level analyses have not yet been sufficiently developed in terms of research into human resources undertaken within the fields of *tourism* and *hospitality* management.

HR and environmental sustainability

HRM scholars have only lately begun to reflect on how HR systems can contribute to the environmental performance of firms (Jackson and Seo, 2010; Renwick, et al., 2013; Paillé et al., 2014). Martínez del Río et al. (2012, p. 842) find, for example, that “HR systems indirectly influence financial performance mediated through their consequences and implications on proactive natural environmental strategies”. Therefore, given the vital importance that development of “sustainable tourism” has for tourism and hospitality, we see the link between HRM and sustainability as a potential interesting path to pursue in future research.

Finally, Table 3 shows the value of the different network indicators calculated for some of its nodes –particularly, the 15 nodes with higher indices in each case– for which the software UCINET® 6 for Windows was used. These nodal indices or indicators –*centrality degree*, *closeness* and *betweenness*– allow us to complete, from the approach offered by “social network analysis (SNA)”, the analyses performed.

Table 3. Insert about here

Conclusions, implications, limitations, and future lines of research

The research work developed here, can be mainly framed among those which aim to “identify”, “analyze” and “visualize” the “knowledge base” or “cognitive structure” of a scientific domain, discipline or sub-discipline by using ‘bibliometric’ methods. The main contribution made by this type of research to the academic literature derives from the use of an “objective methodology” – “co-citation analysis”– to reveal the existence of possible “research fronts” in an area of knowledge or discipline (Eom, 2008). The method also provides scholars with an “adequate” instrument for the identification of new directions in the investigation and the prevailing paradigms therein, as well as to frame their contributions within a specific domain or discipline. What is more, the aforementioned “methodology” could be extremely “useful” for “novel researchers”, since its use makes it easier for them to identify the most important contributions related to an area, domain or discipline and the way in which such contributions may be structured.

In our specific case, the object of study was research developed with regard to HR in the scientific domain of “*tourism and hospitality* management”. This allowed us to identify a number of strands which have characterized research in recent years. Unlike other systematization proposals (e.g., the paper written by Kusluvan et al. (2010) under the title of “*The Human Dimension: A Review of Human Resources Management Issues in the Tourism and Hospitality Industry*”) and as explained above, our study additionally uses an empirical method. However, and most importantly –as highlighted in the results and discussion section– it identifies a significant *gap* in the literature in the area of *management*.

Indeed, the absence of analytical perspectives related, for example, to the important role that HR—one of the built-in components in the RBV of the firm is the human aspect: “the firm-specific and causally ambiguous human capital, and socially complex behaviors and interactions associated with him constitute important forms of valuable, rare, inimitable, and irreplaceable resources” (Coff and Kryscynski, 2011, p. 1431)—can eventually play in the development of *dynamic capabilities* (Ployhart and Moliterno, 2011) that favor both change and the adaptation of industry firms to the business environment, reveals not only the need but also the opportunity to undertake a greater research effort in this area. In this respect, we agree, for example, with authors such as Hong et al. (2014) when they state that, “although strategic capabilities are considered an important intermediate outcome of HRM, no substantive effort has been devoted to delineating how HRM can contribute to the creation of strategic capabilities”. Even more so in *hospitality* and *tourism industries*, where these research works are particularly scarce.

Therefore, the implications of the results reached in our research are clear. At least, from a theoretical “point of view” or “perspective”: more and better investigation is necessary. Mainly, regarding patterns for future research suggested in this manuscript on the role that HR, as “strategic” or “distinctive” assets, can play in the competitiveness of firms competing in *hospitality* and *tourism industries*.

Logically, our study inevitably suffers from certain limitations, some of which, as in many other similar research works, are a consequence of the “research design” while others result from the ‘bibliometric’ methods implemented in analyses developed. This last type of constraint is due to the fact that these analytical techniques do not depend on the context where they take place. Moreover, and regardless of the ‘grounds’ why authors cite, the theoretical foundations as of the ‘sociology’ and ‘philosophy’ of science are identical: when researchers cite one another’s papers—acknowledging previous work that they judge to be of particular usefulness and significance—they create a sprawling but navigable network of cognitive connections, creating and repeating old links or trying to find new linkages between some previous contributions” (García-Lillo et al, 2017b, p. 1805). An additional constraint is that a publication requires some time to accumulate influence within an area of research (p. 1805). It is likewise not easy—with respect to the analyses performed—to refute the presence of a certain degree of subjectivity around the choice about the amount of documents considered in the analysis. As for the rest of limitations—those related to “research design”—, the most important one derives from the consideration of only three scientific journals to undertake the empirical study. Obviously, certain “changes” might have happened if the “range” of “journals” had been expanded. Nonetheless, our choice is in keeping with the goal pursued, i.e. analyzing the three journals about *tourism* and *hospitality* management included within the category of “management” of the Journal Citation Report®. The papers published in other reviews or journals such as “*International Journal of Hospitality Management*”, “*Tourism and Hospitality Research*”, “*Annals of Tourism Research*”, “*Journal of Hospitality and Tourism Research*” or “*Journal of Hospitality and Tourism Management*” might be considered in the development of future research works, so that the outcomes achieved could be compared.

References

- Allen, N.J. and Meyer, J.P. (1990), "The measurement and antecedents of affective, continuance and normative commitment to the organization", *Journal of Occupational Psychology*, Vol. 63 No. 1, pp. 1-18.
- Anderson, J.C. and Gerbing, D.W. (1988), "Structural equation modeling in practice: a review and recommended two-step approach", *Psychological Bulletin*, Vol. 103, pp. 411-423.
- Armstrong, J.S. and Overton, T.S. (1977), "Estimating nonresponse bias in mail surveys", *Journal of Marketing Research*, Vol. 14 No.3, pp. 396-402.
- Arthur, J.B. (1994), "Effects of human resource systems on manufacturing performance and turnover", *Academy of Management Journal*, Vol. 37 No. 3, pp. 670-687.
- Aryee, S., Srinivas, E.S. and Tan, H.H. (2005), "Rhythms of life: antecedents and outcomes of work-family balance in employed parents", *Journal of Applied Psychology*, Vol. 90 No. 1, pp. 132-146.
- Ashforth, B.E. and Humphrey, R.H. (1993), "Emotional labor in service roles: the influence of identity", *Academy of Management Review*, Vol. 18 No. 1, pp. 88-115.
- Ashforth, B.E. and Mael, F. (1989), "Social identity theory and the organization", *Academy of Management Review*, Vol. 14 No. 1, pp. 20-39.
- Asree, S., Zain, M. and Razalli, M.R. (2010), "Influence of leadership competency and organizational culture on responsiveness and performance of firms", *International Journal of Contemporary Hospitality Management*, Vol. 22 No. 4, pp. 500-516.
- Babin, B.J. and Boles, J.S. (1998), "Employee behavior in a service environment: a model and test of potential differences between men and women", *Journal of Marketing*, Vol. 62 No. 2, pp. 77-91.
- Bagozzi, R.P. and Yi, Y. (1988), "On the evaluation of structural equation models", *Journal of the Academy of Marketing Science*, Vol. 16 No. 1, pp. 74-94.
- Bakker, A.B. and Demerouti, E. (2007), "The job demands-resources model: state of the art", *Journal of Managerial Psychology*, Vol. 22 No. 3, pp. 309-328.
- Bakker, A.B. and Demerouti, E. (2008), "Towards a model of work engagement", *Career Development International*, Vol. 13 No. 3, pp. 209-223.
- Barney, J.B. (1991), "Firm resources and sustained competitive advantage", *Journal of Management*, Vol. 17 No. 1, pp. 99-120.
- Barney, J.B. (1997), *Gaining and Sustaining Competitive Advantage*, Addison-Wesley, Reading, MA.
- Baron, R.M. and Kenny, D.A. (1986), "The moderator-mediator variable distinction in social psychological research: conceptual, strategic, and statistical considerations", *Journal of Personality and Social Psychology*, Vol. 51 No. 6, pp. 1173-1182.
- Barron, P. (2008), "Education and talent management: implications for the hospitality industry", *International Journal of Contemporary Hospitality Management*, Vol. 20 No. 7, pp. 730-742.
- Baum, T. (1994), "National tourism policies: implementing the human resource dimension", *Tourism Management*, Vol. 15 No. 4, pp. 259-266.
- Baum, T. (2006), *Human Resource Management for Tourism, Hospitality and Leisure: An International Perspective*, Cengage Learning EMEA, London, UK.
- Baum, T. (2007), "Human resources in tourism: still waiting for change", *Tourism Management*, Vol. 28 No. 6, pp. 1383-1399.
- Baum, T., Amoah, V. and Spivack, S. (1997), "Policy dimensions of human resource management in the tourism and hospitality industries", *International Journal of Contemporary Hospitality Management*, Vol. 9 No. 5/6, pp. 221-229.

- Becker, B.E. and Gerhart, B. (1996), "The impact of human resource management on organizational performance: progress and prospects", *Academy of Management Journal*, Vol. 39 No. 4, pp. 779-801.
- Becker, B.E. and Huselid, M.A. (1998), "High performance work systems and firm performance: a synthesis of research and managerial implications", *Research in Personnel and Human Resource Management*, Vol. 16, pp. 53-101.
- Beltrán-Martín, I., Roca-Puig, V., Escrig-Tena, A. and Bou-Lluisar, J.C. (2008), "Human resource flexibility as a mediating variable between high performance work systems and performance", *Journal of Management*, Vol. 34, No. 5, pp. 1009-1044.
- Bentler, P.M. and Bonett, D.G. (1980), "Significance tests and goodness of fit in the analysis of covariance structures", *Psychological Bulletin*, Vol. 88 No. 3, pp. 588-606.
- Bettencourt, L.A. and Brown, S.W. (1997), "Contact employees: relationships among workplace fairness, job satisfaction and prosocial service behaviors", *Journal of Retailing*, Vol. 73 No. 1, pp. 39-61.
- Birdir, K. (2002), "General manager turnover and root causes", *International Journal of Contemporary Hospitality Management*, Vol. 14 No. 1, pp. 43-47.
- Bitner, M.J. (1990), "Evaluating service encounters: the effects of physical surroundings and employee responses", *Journal of Marketing*, Vol. 54 No. 2, pp. 69-82.
- Bitner, M.J., Booms, B.H. and Tetreault, M.S. (1990), "The service encounter: diagnosing favorable and unfavorable incidents", *Journal of Marketing*, Vol. 54 No. 1, pp. 71-84.
- Blau, P.M. (1964), *Exchange and Power in Social Life*, Transaction Publishers, New Brunswick, NJ.
- Bliese, P.D. (2000), "Within-group agreement, non-independence, and reliability: Implications for data aggregation and analysis", in Klein, K.J. and Kozlowski, S.W.J. (Eds.), *Multilevel Theory, Research, and Methods in Organizations: Foundations, Extensions and New Directions*, Jossey-Bass, San Francisco, CA, pp. 349-381.
- Blomme, R.J., van Rheede, A. and Tromp, D.M. (2010), "The use of the psychological contract to explain turnover intentions in the hospitality industry: a research study on the impact of gender on the turnover intentions of highly educated employees", *The International Journal of Human Resource Management*, Vol. 21 No. 1, pp. 144-162.
- Boshoff, C.H. and Allen, J. (2000), "The influence of selected antecedents on frontline staff's perceptions of service recovery performance", *International Journal of Service Industry Management*, Vol. 11 No. 1, pp. 63-90.
- Bowen, D.E. and Ostroff, C. (2004), "Understanding HRM-firm performance linkages: The role of the "strength" of the HRM system", *Academy of Management Review*, Vol. 29 No. 2, pp. 203-221.
- Boyatzis, R.E. (1982), *The Competent Manager: A Model for Effective Performance*, John Wiley & Sons, New York, NY.
- Burns, J. M. (1978), *Leadership*, Harper & Row, New York, NY.
- Byrne, B.M. (2001), "Structural equation modeling with AMOS, EQS, and LISREL: comparative approaches to testing for the factorial validity of a measuring instrument", *International Journal of Testing*, Vol. 1 No. 1, pp. 55-86.
- Cascio, W.F. (2000), *Costing Human Resources: The Financial Impact of Behavior in Organizations* (4th Edition). Southwestern Publishing, Cincinnati, OH.
- Cawkell, A.E. (1976), "Understanding science by analysing its literature", *Essays of an Information Scientist*, Vol. 2, pp. 543-549.
- Chen, P.J. and Choi, Y. (2008), "Generational differences in work values: a study of hospitality management", *International Journal of Contemporary Hospitality Management*, Vol. 20 No. 6, pp. 595-615.
- Cheng, M. (2016), "Sharing economy: a review and agenda for future research", *International Journal of Hospitality Management*, Vol. 57, 60-70.
- Chiang, F.F.T., Birtch, T.A. and Kwan, H.K. (2010), "The moderating roles of job control and work-life balance practices on employee stress in the hotel and catering industry", *International Journal of Hospitality Management*, Vol. 29 No.1, pp. 25-32.
- Cho, S., Woods, R.H., Jang, S.S. and Erdem, M. (2006), "Measuring the impact of human resource management practices on hospitality firms' performances", *International Journal of Hospitality Management*, Vol. 25 No. 2, pp. 262-277.
- Choi, H.J. and Kim, Y.T. (2012), "Work-family conflict, work-family facilitation, and job outcomes in the Korean hotel industry", *International Journal of Contemporary Hospitality Management*, Vol. 24 No. 7, pp. 1011-1028.
- Choy, D.J.L. (1995), "The quality of tourism employment", *Tourism Management*, Vol. 16 No. 2, pp. 129-137.
- Churchill Jr, G.A. (1979), "A paradigm for developing better measures of marketing constructs", *Journal of Marketing Research*, Vol. 16 No. 1, pp. 64-73.

- Coff, R. and Kryscynski, D. (2011), "Invited editorial: Drilling for micro-foundations of human capital-based competitive advantages", *Journal of Management*, Vol. 37 No.5, pp. 1429-1443.
- Cohen, J. (1988), *Statistical Power Analysis for the Behavioral Sciences* (2nd edition), Lawrence Erlbaum Associates, Inc., Hillsdale, NJ.
- Collins, A.B. (2007), "Human resources: a hidden advantage?", *International Journal of Contemporary Hospitality Management*, Vol. 19 No. 1, pp. 78-84.
- Collins, C.J. and Clark, K.D. (2003), "Strategic Human Resource Practices, Top Management Team Social Networks, and Firm Performance: The Role of Human Resource Practices in Creating Organizational Competitive Advantage", *Academy of Management Journal*, Vol. 46 No. 6, pp. 740-751.
- Cordes, C.L. and Dougherty, T.W. (1993), "A review and an integration of research on job burnout", *Academy of Management Review*, Vol. 18 No. 4, pp. 621-656.
- Crane, D. (1972), *Invisible Colleges: Diffusion of Knowledge in Scientific Communication*, The University of Chicago Press, Chicago, IL.
- Davidson, M.C.G., McPhail, R. and Barry, S. (2011), "Hospitality HRM: past, present and the future", *International Journal of Contemporary Hospitality Management*, Vol. 23 No. 4, pp. 498-516.
- de Solla Price, D.J. (1965), "Networks of scientific papers", *Science*, Vol. 149 No. 3683, pp. 510-515.
- Deery, M. (2008), "Talent management, work-life balance and retention strategies", *International Journal of Contemporary Hospitality Management*, Vol. 20 No. 7, pp. 792-806.
- Delaney, J.T. and Huselid, M.A. (1996), "The impact of human resource management practices on perceptions of organizational performance", *Academy of Management Journal*, Vol. 39 No. 4, pp. 949-969.
- Delery, J.E. and Doty, D.H. (1996), "Modes of theorizing in strategic human resource management: tests of universalistic, contingency, and configurational performance predictions", *Academy of Management Journal*, Vol. 39 No. 4, pp. 802-835.
- Den Hartog, D.N., Boon, C., Verburg, R.M. and Croon, M.A. (2013), "HRM, communication, satisfaction, and perceived performance: A cross-level test", *Journal of Management*, Vol. 39 No. 6, pp. 1637-1665.
- Ehrhart, M.G. (2004), "Leadership and procedural justice climate as antecedents of unit-level organizational citizenship behavior", *Personnel Psychology*, Vol. 57 No. 1, pp. 61-94.
- Enz, C.A. (2009), "Human resource management: a troubling issue for the global hotel industry", *Cornell Hospitality Quarterly*, Vol. 50 No. 4, pp. 578-583.
- Eom, S.B. (2008), *Author Cocitation Analysis: Quantitative Methods for Mapping the Intellectual Structure of an Academic Discipline*, IGI Global, Hershey, PA.
- Esichaikul, R. and Baum, T. (1998), "The case for government involvement in human resource development: a study of the Thai hotel industry", *Tourism Management*, Vol. 19 No. 4, pp. 359-370.
- Field, A. (2005), *Discovering Statistics Using SPSS* (2nd Edition), Sage Publications, Thousand Oaks, CA.
- Fjelstul, J. and Tesone, D.V. (2008), "Golf and club entry level management competencies", *International Journal of Contemporary Hospitality Management*, Vol. 20 No. 6, pp. 694-699.
- Fornell, C. and Larcker, D.F. (1981), "Evaluating structural equation models with unobservable variables and measurement error", *Journal of Marketing Research*, Vol. 18 No. 1, pp. 39-50.
- Frone, M.R. (2003), "Work-family balance", in Quick, J.C. and Tetrick, L.E. (Eds.), *Handbook of Occupational Health Psychology*, American Psychological Association, Washington, DC, pp. 143-162.
- Gallardo, E., Sánchez-Cañizares, S.M., López-Guzmán, T. and Margarida Nascimento Jesus, M. (2010), "Employee satisfaction in the Iberian hotel industry: the case of Andalusia (Spain) and the Algarve (Portugal)", *International Journal of Contemporary Hospitality Management*, Vol. 22 No. 3, pp. 321-334.
- García-Lillo, F., Claver-Cortés, E., Marco-Lajara, B. and Úbeda-García, M. (2017a), "On clusters and industrial districts: a literature review using bibliometrics methods", *Papers in Regional Science*. DOI:10.1111/pirs.12291.
- García-Lillo, F., Úbeda-García, M. and Marco-Lajara, B. (2016), "Organizational ambidexterity: exploring the knowledge base", *Scientometrics*, Vol. 107, pp. 1021-1040.
- García-Lillo, F., Úbeda-García, M. and Marco-Lajara, B. (2017b), "The intellectual structure of human resource management research: a bibliometric study of the International Journal of Human Resource Management, 2000-2012", *The International Journal of Human Resource Management*, Vol. 28 No.13, pp. 1786-1815.
- Garfield, E., Malin, M.V. and Small, H. (1978), "Citation data as science indicators", in Elkana, Y., Lederberg, J., Merton, R.K., Thackray, A. and Zuckerman, H. (Eds.), *Toward a Metric of Science: The Advent of Science Indicators*, John Wiley & Sons, New York, NY, pp. 179-208.
- Ghiselli, R.F., La Lopa, J.M. and Bai, B. (2001), "Job satisfaction, life satisfaction, and turnover intent among food-service managers", *Cornell Hospitality Quarterly*, Vol. 42 No. 2, pp. 28-37.

- Ghobadian, A., Speller, S. and Jones, M. (1994), "Service quality concepts and models", *International Journal of Quality and Reliability Management*, Vol. 11 No. 9, pp. 43-66.
- Gmür, M. (2003), "Co-citation analysis and the search for invisible colleges: a methodological evaluation", *Scientometrics*, Vol. 57 No. 1, pp. 27-57.
- Greenhaus, J.H. and Powell, G.N. (2006), "When work and family are allies: a theory of work-family enrichment", *Academy of Management Review*, Vol. 31 No. 1, pp. 72-92.
- Griffith, D.A., Cavusgil, S.T. and Xu, S. (2008), "Emerging themes in international business research", *Journal of International Business Studies*, Vol. 39 No. 7, pp. 1220-1235.
- Gustafson, C.M. (2002), "Employee turnover: a study of private clubs in the USA", *International Journal of Contemporary Hospitality Management*, Vol. 14 No. 3, pp. 106-113.
- Hair, J.F., Anderson, R.E., Tatham, R.L. and Black, W.C. (1998), *Multivariate Data Analysis* (5th Edition), Prentice Hall, Upper Saddle River, NJ.
- Hartline, M.D. and Ferrell, O.C. (1996), "The management of customer-contact service employees: an empirical investigation", *Journal of Marketing*, Vol. 60 No. 4, pp. 52-70.
- Heskett, J.L., Jones, T.O., Loveman, G.W., Sasser, W.E. and Schlesinger, L.A. (1994), "Putting the service-profit chain to work", *Harvard Business Review*, Vol. 72 No. 2, pp. 164-174.
- Hinkin, T.R. (1998), "A brief tutorial on the development of measures for use in survey questionnaires", *Organizational Research Methods*, Vol. 1 No. 1, pp. 104-121.
- Hinkin, T.R. and Tracey, J.B. (2000), "The cost of turnover: putting a price on the learning curve", *Cornell Hotel & Restaurant Administration Quarterly*, Vol. 41 No. 3, pp. 14-21.
- Hinkin, T.R. and Tracey, J.B. (2010), "What makes it so great? An analysis of human resources practices among Fortune's best companies to work for", *Cornell Hospitality Quarterly*, Vol. 51 No. 2, pp. 158-170.
- Hochschild, A.R. (1983), *The Managed Heart: Commercialization of Human Feeling*, University of California Press, Berkeley, CA.
- Hofstede, G. (1980), *Culture's Consequences: International Differences in Work-Related Values*, Sage Publications, Beverly Hills, CA.
- Holtom, B.C., Mitchell, T.R., Lee, T.W. and Eberly, M.B. (2008), "Turnover and retention research: a glance at the past, a closer review of the present, and a venture into the future", *Academy of Management Annals*, Vol. 2 No. 1, pp. 231-274.
- Hong, Y., Liao, H., Sturman, M.C. and Zhou, Y. (2014), "Competing through customization: using human resource management to create strategic capabilities", *Organizational Psychology Review*, Vol. 4 No. 2, pp. 124-147.
- Hughes, J.C. and Rog, E. (2008), "Talent management: a strategy for improving employee recruitment, retention and engagement within hospitality organizations", *International Journal of Contemporary Hospitality Management*, Vol. 20 No. 7, pp. 743-757.
- Huselid, M.A. (1995), "The impact of human resource management practices on turnover, productivity, and corporate financial performance", *Academy of Management Journal*, Vol. 38 No. 3, pp. 635-672.
- Huselid, M.A. and Becker, B.E. (2011), "Bridging micro and macro domains: Workforce differentiation and strategic human resource management", *Journal of Management*, Vol. 37 No. 2, pp. 421-428.
- Iverson, K. (2000), "Managing for effective workforce diversity: identifying issues that are concern to employees", *The Cornell Hotel & Restaurant Administration Quarterly*, Vol. 41 No. 2, pp. 31-38.
- Iverson, R.D. and Deery, M. (1997), "Turnover culture in the hospitality industry", *Human Resource Management Journal*, Vol. 7 No. 4, pp. 71-82.
- Jackson, S.E. and Seo, J. (2010), "The greening of strategic HRM scholarship", *Organization Management Journal*, Vol. 7 No. 4, pp. 278-290.
- Jackson, S.E., Schuler, R.S. and Jiang, K. (2014), "An aspirational framework for strategic human resource management", *The Academy of Management Annals*, Vol. 8 No. 1, pp. 1-56.
- Jenkins, A.K. (2001), "Making a career of it? Hospitality students' future perspectives: an Anglo-Dutch study", *International Journal of Contemporary Hospitality Management*, Vol. 13 No. 1, pp. 13-20.
- Jiang, J.Y. and Liu, C.W. (2015), "High performance work systems and organizational effectiveness: The mediating role of social capital", *Human Resource Management Review*, Vol. 25 No. 1, pp. 126-137.
- Jöreskog, K.G. and Sörbom, D. (1996), *LISREL 8: User's Reference Guide* (2nd Edition). Scientific Software International, Chicago, IL.
- Judd, C.M., Smith, E.R. and Kidder, L.H. (1991), *Research Methods in Social Relations*, Holt, Rinehart, and Winston, Fort Worth, TX.
- Karatepe, O.M. (2010), "The effect of positive and negative work-family interaction on exhaustion: does work social support make a difference?", *International Journal of Contemporary Hospitality Management*, Vol. 22 No. 6, pp. 836-856.

- Karatepe, O.M. (2013), "The effects of work overload and work-family conflict on job embeddedness and job performance: the mediation of emotional exhaustion", *International Journal of Contemporary Hospitality Management*, Vol. 25 No. 4, pp. 614-634.
- Karatepe, O.M. and Kilic, H. (2007), "Relationships of supervisor support and conflicts in the work-family interface with the selected job outcomes of frontline employees", *Tourism Management*, Vol. 28 No. 1, pp. 238-252.
- Karatepe, O.M. and Sokmen, A. (2006), "The effects of work role and family role variables on psychological and behavioral outcomes of frontline employees", *Tourism Management*, Vol. 27 No. 2, pp. 255-268.
- Karatepe, O.M. and Uludag, O. (2008), "Affectivity, conflicts in the work-family interface, and hotel employee outcomes", *International Journal of Hospitality Management*, Vol. 27 No. 1, pp. 30-41.
- Karatepe, O.M., Uludag, O., Menevis, I., Hadzimehmedagic, L. and Baddar, L. (2006), "The effects of selected individual characteristics on frontline employee performance and job satisfaction", *Tourism Management*, Vol. 27 No. 4, pp. 547-560.
- Kay, C. and Russette, J. (2000), "Hospitality-management competencies: identifying managers' essential skills", *Cornell Hotel & Restaurant Administration Quarterly*, Vol. 41 No. 2, pp. 52-63.
- Keaveney, S.M. (1995), "Customer switching behavior in service industries: an exploratory study", *Journal of Marketing*, Vol. 59 No. 2, pp. 71-82.
- Keegan, S. and Lucas, R. (2005), "Hospitality to hostility: dealing with low response rates in postal surveys", *International Journal of Hospitality Management*, Vol. 24 No. 2, pp. 157-169.
- Kim, H.J., Shin, K.H. and Umbreit, W.T. (2007), "Hotel job burnout: the role of personality characteristics", *International Journal of Hospitality Management*, Vol. 26 No. 2, pp. 421-434.
- King, C. (2010), "One size doesn't fit all": Tourism and hospitality employees' response to internal brand management, *International Journal of Contemporary Hospitality Management*, Vol. 22 No. 4, pp. 517-534.
- Kong, H., Cheung, C. and Zhang, H.Q. (2010), "Career management systems: what are China's state-owned hotels practising?", *International Journal of Contemporary Hospitality Management*, Vol. 22 No. 4, pp. 467-482.
- Köseoglu, M.A., Rahimi, R., Okumus, F. and Liu, J. (2016a), "Bibliometric studies in tourism", *Annals of Tourism Research*, Vol. 61, pp. 180-198.
- Köseoglu, M.A., Sehitoglu, Y., Ross, G. and Parnell, J.A. (2016b), "The evolution of business ethics research in the realm of tourism and hospitality: A bibliometric analysis", *International Journal of Contemporary Hospitality Management*, Vol. 28 No. 8, pp. 1598-1621.
- Kotler, P.T., Bowen, J.T. and Makens, J. (2010), *Marketing for Hospitality and Tourism* (5th Edition), Prentice Hall, Upper Saddle River, NJ.
- Kusluvan, S. and Kusluvan, Z. (2000), "Perceptions and attitudes of undergraduate tourism students towards working in the tourism industry in Turkey", *Tourism Management*, Vol. 21 No. 3, pp. 251-269.
- Kusluvan, S., Kusluvan, Z., Ilhan, I. and Buyruk, L. (2010), "The human dimension: a review of human resources management issues in the tourism and hospitality industry", *Cornell Hospitality Quarterly*, Vol. 51 No. 2, pp. 171-214.
- Lam, T., Zhang, H. and Baum, T. (2001), "An investigation of employees' job satisfaction: the case of hotels in Hong Kong", *Tourism Management*, Vol. 22 No. 2, pp. 157-165.
- Leidner, R. (1993), *Fast Food, Fast Talk: Service Work and the Routinization of Everyday Life*, University of California Press, Berkeley, CA.
- Lub, X., Bijvank, M.N., Bal, P.N., Blomme, R. and Schalk, R. (2012), "Different or alike? Exploring the psychological contract and commitment of different generations of hospitality workers", *International Journal of Contemporary Hospitality Management*, Vol. 24 No. 4, pp. 553-573.
- Lucas, R. and Deery, M. (2004), "Significant developments and emerging issues in human resource management", *International Journal of Hospitality Management*, Vol. 23 No. 5, pp. 459-472.
- Lucas, R.E. (2004), *Employment Relations in the Hospitality and Tourism Industries*, Routledge, London.
- Lynn, M. (2002), "Turnover's relationships with sales, tips and service across restaurants in a chain", *International Journal of Hospitality Management*, Vol. 21 No. 4, pp. 443-447.
- Macduffie, J.P. (1995), "Human resource bundles and manufacturing performance: organizational logic and flexible production systems in the world auto industry", *Industrial & Labor Relations Review*, Vol. 48 No. 2, pp. 197-221.
- Magnini, V.P., Lee, G. and Kim, B.P. (2011), "The cascading affective consequences of exercise among hotel workers", *International Journal of Contemporary Hospitality Management*, Vol. 23 No. 5, pp. 624-643.

- Markoulli, M., Lee, C.I., Byington, E. and Felps, W.A. (2017), "Mapping Human Resource Management: reviewing the field and charting future directions", *Human Resource Management Review*, Vol. 27 No. 3, pp. 367-396.
- Martínez-del-Río, J., Céspedes-Lorente, J. and Carmona-Moreno, E. (2012), "High-involvement work practices and environmental capabilities: How HIWPS create environmentally based sustainable competitive advantages", *Human Resource Management*, Vol. 51 No. 6, pp. 827-850.
- Mathieu, J.E. and Zajac, D.M. (1990), "A review and meta-analysis of the antecedents, correlates, and consequences of organizational commitment", *Psychological Bulletin*, Vol. 108 No. 2, pp. 171-194.
- Meyer, J.P. and Allen, N.J. (1991), "A three-component conceptualization of organizational commitment", *Human Resource Management Review*, Vol. 1 No. 1, pp. 61-89.
- Meyer, J.P., Allen, N.J. and Smith, C.A. (1993), "Commitment to organizations and occupations: extension and test of a three-component conceptualization", *Journal of Applied Psychology*, Vol. 78 No. 4, pp. 538-551.
- Michel, J.W., Kavanagh, M.J. and Tracey, J.B. (2013), "Got support? The impact of supportive work practices on the perceptions, motivation, and behavior of customer-contact employees", *Cornell Hospitality Quarterly*, Vol. 54 No. 2, pp. 161-173.
- Miguel, S., Moya-Anegón, F. and Herrero-Solana, V. (2007), "El análisis de co-citas como método de investigación en Biblioteconomía y Ciencia de la Información", *Investigación Bibliotecológica*, Vol. 21 No. 43, pp. 139-155.
- Milman, A. (2003), "Hourly employee retention in small and medium attractions: the Central Florida example", *International Journal of Hospitality Management*, Vol. 22 No. 1, pp. 17-35.
- Moncarz, E., Zhao, J. and Kay, C. (2009), "An exploratory study of US lodging properties' organizational practices on employee turnover and retention", *International Journal of Contemporary Hospitality Management*, Vol. 21 No. 4, pp. 437-458.
- Morgan, R.M. and Hunt, S.D. (1994), "The commitment-trust theory of relationship marketing", *Journal of Marketing*, Vol. 58 No. 3, pp. 20-38.
- Morris, J.A. and Feldman, D.C. (1996), "The dimensions, antecedents, and consequences of emotional labor", *Academy of Management Review*, Vol. 21 No. 4, pp. 986-1010.
- Morrison, A., Rimmington, M. and Williams, C. (1999), *Entrepreneurship in the Hospitality, Tourism and Leisure Industries*, Routledge, London.
- Netemeyer, R.G., Boles, J.S. and McMurrian, R. (1996), "Development and validation of work-family conflict and family-work conflict scales", *Journal of Applied Psychology*, Vol. 81 No. 4, pp. 400-410.
- Ng, T.W.H., Eby, L.T., Sorensen, K.L. and Feldman, D.C. (2005), "Predictors of objective and subjective career success: a meta-analysis", *Personnel Psychology*, Vol. 58 No. 2, pp. 367-408.
- Nickson, D., Warhurst, C. and Dutton, E. (2005), "The importance of attitude and appearance in the service encounter in retail and hospitality", *Managing Service Quality: An International Journal*, Vol. 15 No. 2, pp. 195-208.
- Nishii, L., Lepak, D. and Schneider, B. (2008), "Employee attributions of the "why" of HR practices: Their effects on employee attitudes and behaviors, and customer satisfaction", *Personnel Psychology*, Vol. 61 No. 3, pp. 503-545.
- Nunnally, J.C. (1978), *Psychometric Theory*, McGraw-Hill, New York, NY.
- Nyberg, A.J., Moliterno, T.P., Hale Jr, D. and Lepak, D.P. (2014), "Resource-based perspectives on unit-level human capital: A review and integration", *Journal of Management*, Vol. 40 No. 1, pp. 316-346.
- O'Neill, J.W. and Davis, K. (2011), "Work stress and well-being in the hotel industry", *International Journal of Hospitality Management*, Vol. 30 No. 2, pp. 385-390.
- Okeiyi, E., Finley, D. and Postel, R.T. (1994), "Food and beverage management competencies: educator, industry, and student perspectives", *Hospitality and Tourism Educator*, Vol. 6 No. 4, pp. 37-40.
- Okumus, F., Köseoglu, M.A., Morvillo, A and Altin, M. (2017), "Scientific progress on strategic management in hospitality and tourism: A state-of-the-art", *Tourism Review*. DOI: 10.1108/TR-03-2017-0047.
- Oliver R.L. (1997), *Satisfaction: A Behavioral Perspective on the Consumer*, Irwin/McGraw-Hill, Boston, MA.
- Olsen, M.D., West, J.J. and Yick Tse, E.C. (2008), *Strategic Management in the Hospitality Industry* (4th Edition), Prentice-Hall, New York, NY.
- Organ, D.W. (1988), *Organizational Citizenship Behavior: The Good Soldier Syndrome*, Issues in Organization and Management Series, Lexington Books, Lexington, MA.
- Orpen, C. (1994), "The effects of organizational and individual career management on career success", *International Journal of Manpower*, Vol. 15 No. 1, pp. 27-37.
- Paillé, P., Chen, Y. and Jin, J. (2014), "The impact of human resource management on environmental performance: an employee-level study", *Journal of Business Ethics*, Vol. 121 No. 3, pp. 451-466.

- Parasuraman, A., Zeithaml, V.A. and Berry, L.L. (1985), "A conceptual model of service quality and its implications for future research", *Journal of Marketing*, Vol. 49 No. 4, pp. 41-50.
- Parasuraman, A., Zeithaml, V.A. and Berry, L.L. (1988), "SERVQUAL: a multiple-item scale for measuring consumer perceptions of service quality", *Journal of Retailing*, Vol. 64 No. 1, pp. 12-40.
- Patel, P.C., Messersmith, J.G. and Lepak, D.P. (2013), "Walking the tightrope: An assessment of the relationship between high-performance work systems and organizational ambidexterity", *Academy of Management Journal*, Vol. 56 No. 5, pp. 1420-1442.
- Patton, M.Q. (2002), *Qualitative Research & Evaluation Methods*, Sage Publications, Thousand Oaks, CA.
- Pfeffer, J. (1994), *Competitive Advantage Through People: Unleashing the Power of the Work Force*, Harvard Business School Press, Boston, MA.
- Ployhart, R.E. and Moliterno, T.P. (2011), "Emergence of the human capital resource: a multilevel model", *Academy of Management Review*, Vol. 36 No. 1, pp. 127-150.
- Podsakoff, P.M. and Organ, D.W. (1986), "Self-reports in organizational research: problems and prospects", *Journal of Management*, Vol. 12 No. 4, pp. 531-544.
- Podsakoff, P.M., MacKenzie, S.B., Lee, J. and Podsakoff, N.P. (2003), "Common method biases in behavioral research: a critical review of the literature and recommended remedies", *Journal of Applied Psychology*, Vol. 88 No. 5, pp. 879-903.
- Porter, M.E. (1985), *Competitive Advantage: Creating and Sustaining Superior Performance*, The Free Press, New York, NY.
- Portugal-Ferreira, M., Frias-Pinto, C. and Ribeiro-Serra, F. (2014), "The transaction costs theory in international business research: a bibliometric study over three decades", *Scientometrics*, Vol. 98 No. 3, pp. 1899-1922.
- Poulston, J. (2008), "Hospitality workplace problems and poor training: a close relationship", *International Journal of Contemporary Hospitality Management*, Vol. 20 No. 4, pp. 412-427.
- Renwick, D.W.S., Redman, T. and Maguire, S. (2013), "Green human resource management: A review and research agenda", *International Journal of Management Reviews*, Vol. 15 No. 1, pp. 1-14.
- Rhoades, L. and Eisenberger, R. (2002), "Perceived organizational support: a review of the literature", *Journal of Applied Psychology*, Vol. 87 No. 4, pp. 698-714.
- Rich, B.L., Lepine, J.A. and Crawford, E.R. (2010), "Job engagement: antecedents and effects on job performance", *Academy of Management Journal*, Vol. 53 No. 3, pp. 617-635.
- Riley, M., Ladkin, A. and Szivas, E. (2002), *Tourism Employment. Analysis and Planning*, Channel View Publications, Clevedon, UK.
- Riley, M., Lockwood, A., Powell-Perry, J. and Baker, M. (1998), "Job satisfaction, organisation commitment and occupational culture: a case from the UK pub industry", *Progress in Tourism & Hospitality Research*, Vol. 4 No. 2, pp. 159-168.
- Ritzer, G. (1993), *The McDonaldization of Society: An Investigation into the Changing Character of Contemporary Social Life*, Pine Forge Press, Newbury Park, CA.
- Rowley, G. and Purcell, K. (2001), "'As cooks go, she went': is labour churn inevitable?", *International Journal of Hospitality Management*, Vol. 20 No. 2, pp. 163-185.
- Sandwich, P. (1993), "A hierarchy of management training requirements: the competency domain model", *Public Personnel Management*, Vol. 22 No. 1, pp. 43-62.
- Schuler, R.S. and Jackson, S.E. (1987), "Linking competitive strategies with human resource management practices", *Academy of Management Executive*, Vol. 1 No. 3, pp. 207-219.
- Siemsen, E., Roth, A. and Oliveira, P. (2010), "Common method bias in regression models with linear, quadratic, and interaction effects", *Organizational Research Methods*, Vol. 13 No. 3, pp. 456-476.
- Silva, P. (2006), "Effects of disposition on hospitality employee job satisfaction and commitment", *International Journal of Contemporary Hospitality Management*, Vol. 18 No. 4, pp. 317-328.
- Simons, T.L. and Hinkin, T.R. (2001), "The effect of employee turnover on hotel profits: a test across multiple hotels", *Cornell Hotel & Restaurant Administration Quarterly*, Vol. 42 No. 4, pp. 65-69.
- Singh, J. (2000), "Performance productivity and quality of frontline employees in service organizations", *Journal of Marketing*, Vol. 64 No. 2, pp. 15-34.
- Singh, J., Verbeke, W. and Rhoads, G.K. (1996), "Do organizational practices matter in role stress processes? A study of direct and moderating effects for marketing-oriented boundary spanners", *Journal of Marketing*, Vol. 60 No. 3, pp. 69-86.
- Slonaker, W.M., Wendt, A.C. and Baker, B. (2007), "Employment discrimination in the restaurant industry", *Cornell Hotel & Restaurant Administration Quarterly*, Vol. 48 No. 1, pp. 46-58.
- Small, H. (1973), "Co-citation in the scientific literature: a new measure of the relation between two documents", *Journal of the American Society for Information Science*, Vol. 24 No. 4, pp. 265-269.

- Smith, P.C., Kendall, L.M. and Hulin, C.L. (1969), *The Measurement of Satisfaction in Work and Retirement: A Strategy for the Study of Attitudes*, Rand McNally, Chicago, IL.
- Solnet, D. and Hood, A. (2008), "Generation Y as hospitality employees: framing a research agenda", *Journal of Hospitality and Tourism Management*, Vol. 15 No. 1, pp. 59-68.
- Swart, J., Turner, N., van Rossenberg, Y. and Kinnie, N. (2016), "Who does what in enabling ambidexterity? Individual actions and HRM practices", *The International Journal of Human Resource Management*. DOI: 10.1080/09585192.2016.1254106.
- Szivas, E. and Riley, M. (1999), "Tourism employment during economic transition", *Annals of Tourism Research*, Vol. 26 No. 4, pp. 747-771.
- Szivas, E., Riley, M. and Airey, D. (2003), "Labor mobility into tourism: attraction and satisfaction", *Annals of Tourism Research*, Vol. 30 No. 1, pp. 64-76.
- Tang, T.W. and Tang, Y.Y. (2012), "Promoting service-oriented organizational citizenship behaviors in hotels: the role of high-performance human resource practices and organizational social climates", *International Journal of Hospitality Management*, Vol. 31 No. 3, pp. 885-895.
- Tas, R.F. (1988), "Teaching future managers", *Cornell Hotel & Restaurant Administration Quarterly*, Vol. 29 No. 2, pp. 41-43.
- Tas, R.F., LaBrecque, S. V. and Clayton, H.R. (1996), "Property-management competencies for management trainees", *Cornell Hotel & Restaurant Administration Quarterly*, Vol. 37 No. 4, pp. 90-96.
- Thorensen, C.J., Kaplan, S.A., Barsky, A.P., Warren, C.R. and de Chermont, K. (2003), "The affective underpinnings of job perceptions and attitudes: a meta-analytic review and integration", *Psychological Bulletin*, Vol. 129 No. 6, pp. 914-945.
- Tracey, J.B. and Hinkin, T.R. (2008), "Contextual factors and cost profiles associated with employee turnover", *Cornell Hospitality Quarterly*, Vol. 49 No. 1, pp. 12-27.
- Tsaur, S.H. and Lin, Y.C. (2004), "Promoting service quality in tourist hotels: the role of HRM practices and service behavior", *Tourism Management*, Vol. 25 No. 4, pp. 471-481.
- Úbeda-García, M., Claver-Cortés, E., Marco-Lajara, B. and Zaragoza-Sáez, P. (2016), "Toward organizational ambidexterity in the hotel industry: the role of human resources", *Cornell Hospitality Quarterly*, Vol. 57 No. 4, pp. 367-378.
- Walsh, K. and Taylor, M.S. (2007), "Developing in-house careers and retaining management talent what hospitality professionals want from their jobs", *Cornell Hotel & Restaurant Administration Quarterly*, Vol. 48 No. 2, pp. 163-182.
- Walumbwa, F.O., Hartnell, C.A. and Oke, A. (2010), "Servant leadership, procedural justice climate, service climate, employee attitudes, and organizational citizenship behavior: a cross-level investigation", *Journal of Applied Psychology*, Vol. 95 No. 3, pp. 517-529.
- Warech, M. and Tracey, J.B. (2004), "Evaluating the impact of human resources: identifying what matters", *Cornell Hotel & Restaurant Administration Quarterly*, Vol. 45 No. 4, pp. 376-387.
- Winata, L. and Mia, L. (2005), "Information technology and the performance effect of managers' participation in budgeting: evidence from the hotel industry", *International Journal of Hospitality Management*, Vol. 24 No. 1, pp. 21-39.
- Wong, K.K.F. and Kwan, C. (2001), "An analysis of the competitive strategies of hotels and travel agents in Hong Kong and Singapore", *International Journal of Contemporary Hospitality Management*, Vol. 13 No. 6, pp. 293-303.
- Wong, S. and Pang, L. (2003), "Motivators to creativity in the hotel industry—perspectives of managers and supervisors", *Tourism Management*, Vol. 24 No. 5, pp. 551-559.
- Wong, S.C. and Ko, A. (2009), "Exploratory study of understanding hotel employees' perception on work-life balance issues", *International Journal of Hospitality Management*, Vol. 28 No. 2, pp. 195-203.
- Worsfold, P. (1999), "HRM, performance, commitment and service quality in the hotel industry", *International Journal of Contemporary Hospitality Management*, Vol. 11 No. 7, pp. 340-348.
- Wright, P.M. and McMahan, G.C. (2011), "Exploring human capital: putting 'human' back into strategic human resource management", *Human Resource Management Journal*, Vol. 21 No. 2, pp. 93-104.
- Wright, P.M. and Ulrich, M.D. (2017), "A Road Well Traveled: The Past, Present, and Future Journey of Strategic Human Resource Management", *Annual Review of Organizational Psychology and Organizational Behavior*, Vol. 4, pp. 45-65.
- Wright, P.M., Coff, R. and Moliterno, T.P. (2014), "Strategic human capital: Crossing the great divide", *Journal of Management*, Vol. 40 No. 2, pp. 353-370.
- Xanthopoulou, D., Bakker, A.B., Demerouti, E. and Schaufeli, W.B. (2007), "The role of personal resources in the job demands-resources model", *International Journal of Stress Management*, Vol. 14 No. 2, pp. 121-141.

- Yang, J.T. (2010), "Antecedents and consequences of job satisfaction in the hotel industry", *International Journal of Hospitality Management*, Vol. 29 No. 4, pp. 609-619.
- Yin, R.K. (1984), *Case Study Research: Design and Methods*. Sage Publications, Beverly Hills, CA.
- Zeithaml, V.A. (1988), "Consumer perceptions of price, quality, and value: a means-end model and synthesis of evidence", *Journal of Marketing*, Vol. 52 No. 3, pp. 2-22.
- Zeithaml, V.A., Bitner, M.J. and Gremler, D.D. (2006), *Services Marketing: Integrating Customer Focus Across the Firm* (4th Edition), McGraw-Hill, New York, NY.
- Zhang, H.Q. and Wu, E. (2004), "Human resources issues facing the hotel and travel industry in China", *International Journal of Contemporary Hospitality Management*, Vol. 16 No. 7, pp. 424-428.
- Zhao, X.R. and Namasivayam, K. (2012), "The relationship of chronic regulatory focus to work-family conflict and job satisfaction", *International Journal of Hospitality Management*, Vol. 31 No. 2, pp. 458-467.
- Zhao, X.R., Qu, H. and Ghiselli, R. (2011), "Examining the relationship of work-family conflict to job and life satisfaction: a case of hotel sales managers", *International Journal of Hospitality Management*, Vol. 30 No. 1, pp. 46-54.

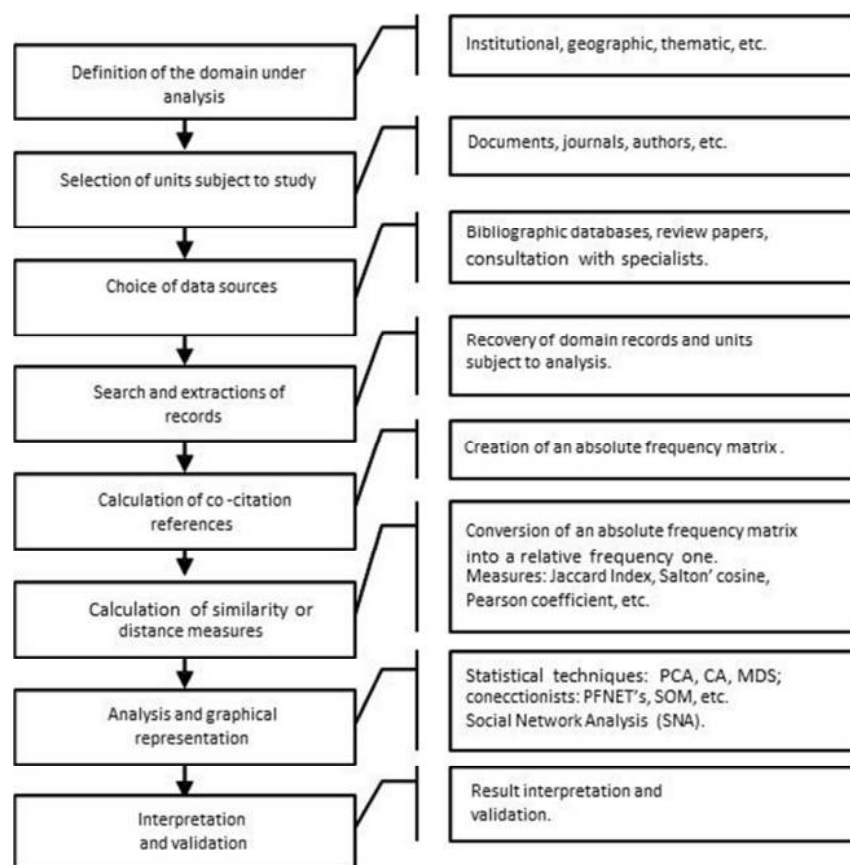


Figure 1. Co-citation analysis: stages in the development of this method

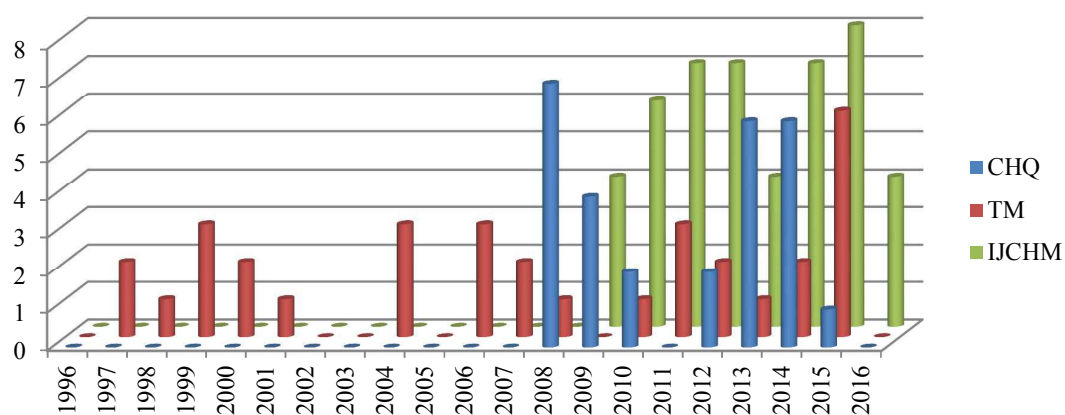


Figure 2. Journal and year of publication of the 108 papers analysed.

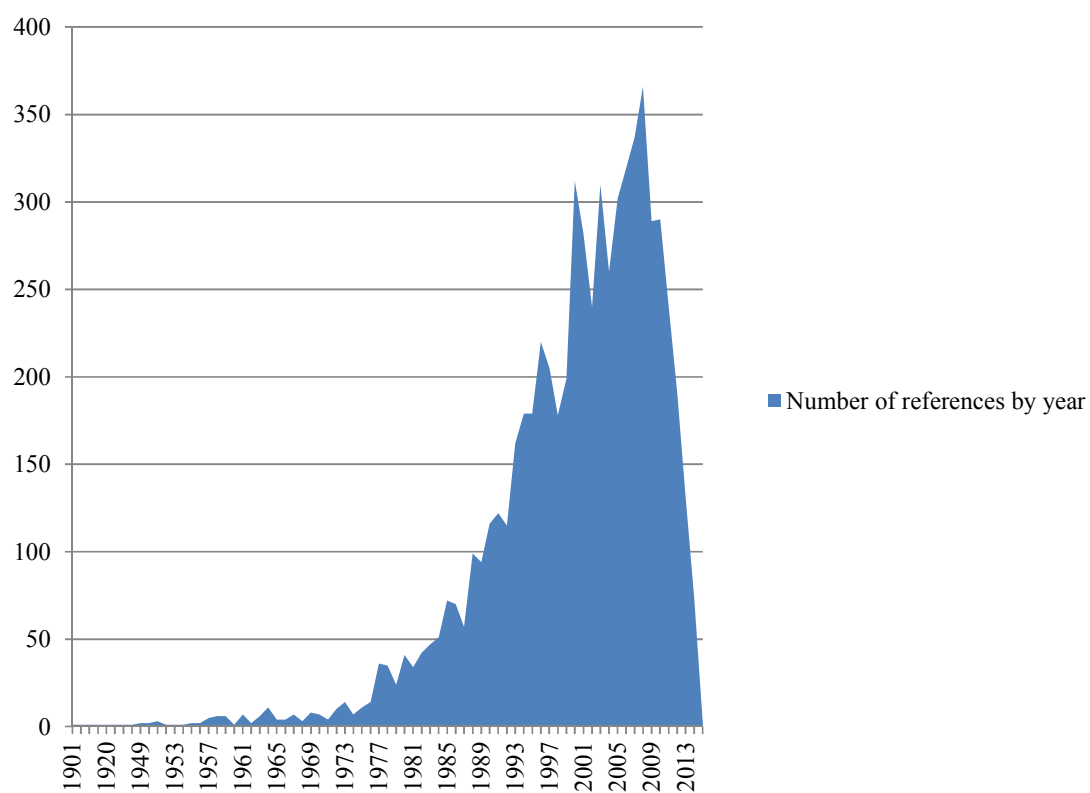


Figure 3. Frequency distribution of the 6,518 references analysed by years

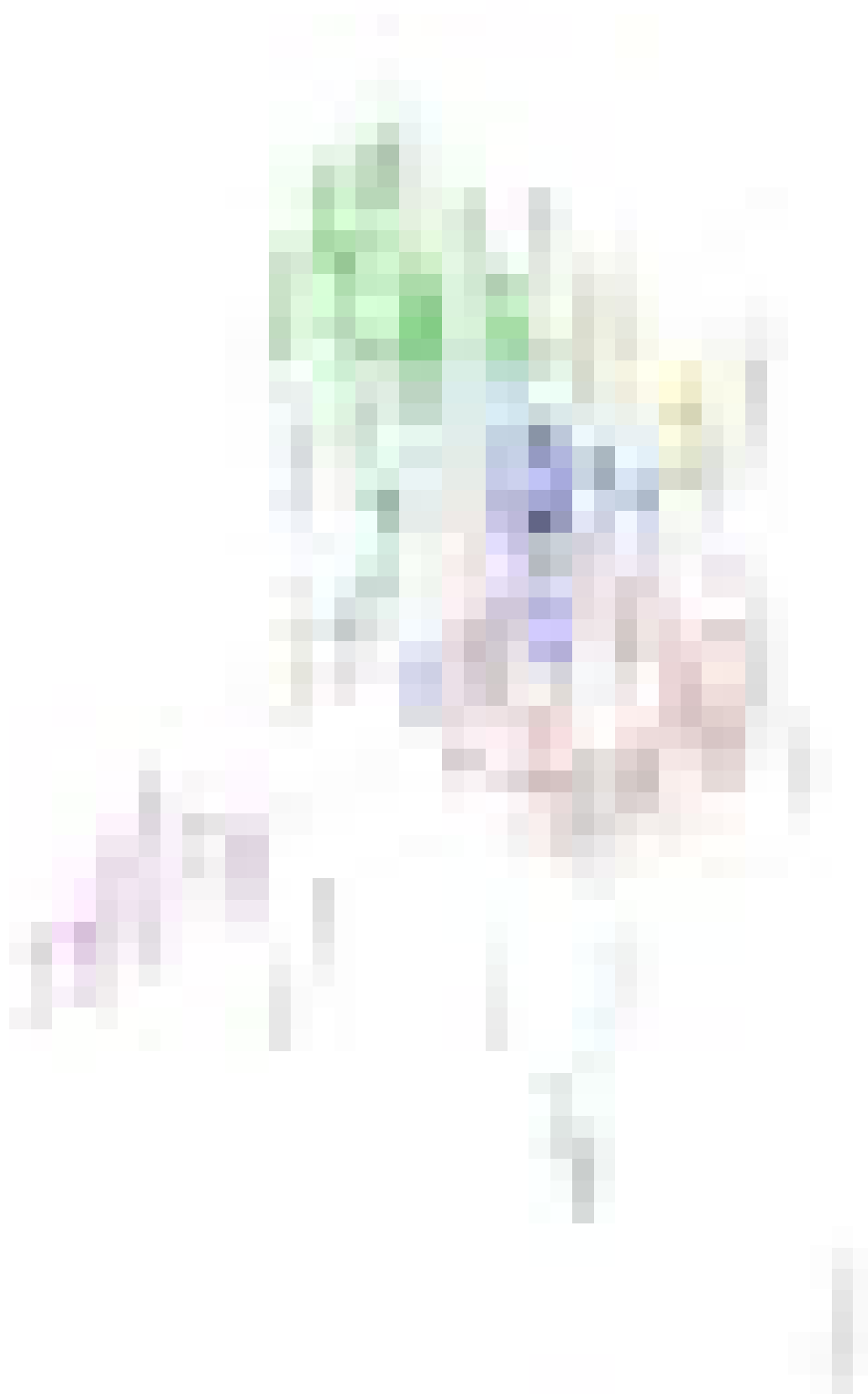


Figure 4. Intellectual Structure of research on HR in the *tourism and hospitality management* scientific domain: visualization performed using VOSviewer© –map created using VOS mapping and clustering techniques.

Table 1. List of the documents most often cited by the research papers on HR in the *tourism* and *hospitality management* scientific domain

Ranking	Most-cited documents	Number of citations	Ranking	Most-cited documents	Number of citations
1	Hair, Tatham, Anderson and Black (1998)	21	33	Walsh and Taylor (2007)	5
2	Baron and Kenny (1986)	14	34	Churchill (1979)	5
3	Anderson and Gerbing (1988)	14	35	Singh, Verbeke and Rhoads (1996)	5
4	Fornell and Larcker (1981)	13	36	Solnet and Hood (2008)	5
5	Nunnally (1978)	11	37	Poulston (2008)	5
6	Bagozzi and Yi (1988)	10	38	Podsakoff and Organ (1986)	4
7	Podsakoff, and MacKenzie, Lee and Podsakoff (2003)	10	39	Ashforth and Humphrey (1993)	4
8	Kusluvan, Kusluvan, Ilhan and Buyruk (2010)	8	40	Szivas and Riley (1999)	4
9	Jöreskog and Sörbom (1996)	8	41	Zeithaml Bitner and Gremler (2006)	4
10	Heskett, Jones, Loveman, Sasser and Schlesinger (1994)	7	42	Byrne (2001)	4
11	Delery and Doty (1996)	7	43	Lucas (2004)	4
12	Parasuraman, Zeithaml and Berry (1988)	7	44	Walumbwa, Hartnell and Oke (2010)	4
13	Huselid (1995)	7	45	Okeiyi, Finley and Postel (1994)	4
14	Hartline and Ferrell (1996)	7	46	Tas, LaBrecque and Clayton (1996)	4
15	Field (2005)	6	47	Iverson and Deery (1997)	4
16	Cho, Woods, Jang and Erdem (2006)	6	48	Kusluvan and Kusluvan (2000)	4
17	Yin (1984)	6	49	Delaney and Huselid (1996)	4
18	Hofstede (1980)	6	50	Bitner (1990)	4
19	Davidson, McPhail and Barry (2011)	6	51	Bettencourt and Brown (1997)	4
20	Hinkin and Tracey (2000)	6	52	Riley, Ladkin and Szivas (2002)	4
21	Boshoff and Allen (2000)	6	53	Baum, Amoah and Spivack (1997)	4
22	Hinkin and Tracey (2010)	5	54	Pfeffer (1994)	4
23	Deery (2008)	5	55	Kay and Russette (2000)	4
24	Blau (1964)	5	56	Porter (1985)	4
25	Bitner, Booms and Tetreault (1990)	5	57	Hinkin (1998)	4
26	Hochschild (1983)	5	58	Organ (1988)	4
27	Barney (1991)	5	59	Szivas, Riley and Airey (2003)	4
28	Silva (2006)	5	60	Baum (2006)	4
29	Allen and Meyer (1990)	5	61	Schuler and Jackson (1987)	4
30	Bentler and Bonett (1980)	5	62	Karatepe, Uludag, Menevis, Hadzimehmedagic and Baddar (2006)	4
31	Simons and Hinkin (2001)	5	63	Chen and Choi (2008)	4
32	Meyer and Allen (1991)	5	64	Chiang, Birtch and Kwong-Kwan (2010)	4

Table 1. List of the documents most often cited by the research papers on HR in the *tourism* and *hospitality management* scientific domain (*continued*)

Ranking	Most-cited documents	Number of citations	Ranking	Most-cited documents	Number of citations
65	Olsen, West and Yick Tze (2008)	3	97	Arthur (1994)	3
66	Karatepe (2010)	3	98	Ritzer (1993)	3
67	Thoresen, Kaplan, Barsky, Warren and de Chermon (2003)	3	99	Wong and Kwan (2001)	3
68	Judd, Smith and Kidder (1991)	3	100	Riley, Lockwood, Powell-Perry and Baker (1998)	3
69	Birdir (2002)	3	101	Leidner (1993)	3
70	Fjelstul and Tesone (2008)	3	102	Hughes and Rog (2008)	3
71	Esichaikul and Baum (1998)	3	103	Keaveney (1995)	3
72	Iverson (2000)	3	104	Wong and Ko (2009)	3
73	Kim, Shin and Umbreit (2007)	3	105	Tsaur and Lin (2004)	3
74	O'Neill and Davis (2011)	3	106	Wong and Pang (2003)	3
75	Karatepe and Sokmen (2006)	3	107	Keegan and Lucas (2005)	3
76	Patton (2002)	3	108	Worsfold (1999)	3
77	Karatepe and Kilic (2007)	3	109	MacDuffie (1995)	3
78	Yang (2010)	3	110	Mathieu and Zajac (1990)	3
79	Morgan and Hunt (1994)	3	111	Rhoades and Eisenberger (2002)	3
80	Cohen (1988)	3	112	Greenhaus and Powell (2006)	3
81	Frone (2003)	3	113	Oliver (1997)	3
82	Bakker and Demerouti (2007)	3	114	Ng, Eby, Sorensen and Feldman (2005)	3
83	Xanthopoulou, Bakker, Demerouti and Schaufeli (2007)	3	115	Karatepe (2013)	3
84	Lynn (2002)	3	116	Winata and Mia (2005)	3
85	Netemeyer, Boles and McMurrian (1996)	3	117	Cordes and Dougherty (1993)	3
86	Rowley and Purcell (2001)	3	118	Bliese (2000)	3
87	Karatepe and Uludag (2008)	3	119	Warech and Tracey (2004)	3
88	Bakker and Demerouti (2008)	3	120	Armstrong and Overton (1977)	3
89	Sandwith (1993)	3	121	Moncarz, Zhao and Kay (2009)	3
90	Ashforth and Mael (1989)	3	122	Rich, Lepine and Crawford (2010)	3
91	Boyatzis (1982)	3	123	Holtom, Mitchell, Lee and Eberly (2008)	3
92	Asree, Zain and Razali (2010)	3	124	Nickson, Warhurst and Dutton (2005)	3
93	Magnini, Lee and Kim (2011)	3	125	Babin and Boles (1998)	3
94	Aryee, Srinivas and Tan (2005)	3	126	Burns (1978)	3
95	Blomme, van Rheede and Tromp (2010)	3	127	Becker and Gerhart (1996)	3
96	Tracey and Hinkin (2008)	3	128	Morrison, Rimmington and Williams (1999)	3

Table 1. List of the documents most often cited by the research papers on HR in the *tourism* and *hospitality management* scientific domain (*continued*)

Ranking	Most-cited documents	Number of citations	Ranking	Most-cited documents	Number of citations
129	Becker and Huselid (1998)	3	147	Parasuraman, Zeithaml and Berry (1985)	3
130	Singh (2000)	3	148	Barron (2008)	3
131	Gallardo, Sánchez-Cañizares, López-Guzmán and Nascimento-Jesus (2010)	3	149	Milman (2003)	3
132	Choy (1995)	3	150	Zhang and Wu (2004)	3
133	Lam, Zhang and Baum (2001)	3	151	Slonaker, Wendt and Baker (2007)	3
134	Michel, Kavanagh and Tracey (2013)	3	152	Zhao, Qu and Ghiselli (2011)	3
135	Lub, Bijvank, Bal, Blomme and Schalk (2012)	3	153	Barney (1997)	3
136	Orpen (1994)	3	154	Zhao and Namasivayam (2012)	3
137	Kotler, Bowen and Makens (2010)	3	155	Zeithaml (1988)	3
138	Ehrhart (2004)	3	156	Baum (2007)	3
139	Enz (2009)	3	157	Cascio (2000)	3
140	Meyer, Allen and Smith (1993)	3	158	Smith, Kendall and Hulin (1969)	3
141	Ghiselli, La Lopa and Bai (2001)	3	159	King (2010)	3
142	Jenkins (2001)	3	160	Siemens, Roth and Oliveira (2010)	3
143	Kong, Cheung and Zhang (2010)	3	161	Tas (1988)	3
144	Gustafson (2002)	3	162	Tang and Tang (2012)	3
145	Baum (1994)	3	163	Lucas and Deery (2004)	3
146	Choi and Kim (2012)	3	164	Morris and Feldman (1996)	3

Table 2. List of journals where the 132 research papers listed on Table 1 have been published

Title of Journal	Frequency	Percentage	Total percentage
<i>International J of Contemporary Hospitality Management</i>	24	18.18%	18.18%
<i>International Journal of Hospitality Management</i>	16	12.12%	30.30%
<i>Tourism Management</i>	11	8.33%	38.63%
<i>Journal of Marketing</i>	10	7.58%	46.21%
<i>Cornell Hotel & Restaurant Administration Quarterly</i>	10	7.58%	53.78%
<i>Journal of Applied Psychology</i>	6	4.55%	58.33%
<i>Academy of Management Journal</i>	6	4.55%	62.88%
<i>Cornell Hospitality Quarterly</i>	5	3.78%	66.66%
<i>Others</i>	44	33.33%	100%
TOTAL	132	100%	

Table 3. Indicators –*centrality degree, closeness and betweenness*– calculated for some of the nodes of the network

Document	Centrality (nDegree)	Document	Closeness (Freeman)	Document	Betweenness (nBetweenness)
Hair Jr. et al. (1998)	0,1362	Hair Jr. et al. (1998)	0,75814	Hair Jr. et al. (1998)	8,9703
Anderson and Gerbing (1988)	0,1196	Anderson and Gerbing (1988)	0,69957	Nunnally (1978)	3,7474
Fornell and Larcker (1981)	0,1067	Nunnally (1978)	0,69068	Anderson and Gerbing (1988)	3,1421
Nunnally (1978)	0,0871	Fornell and Larcker (1981)	0,67917	Simons and Hinkin (2001)	3,1415
Bagozzi and Yi (1988)	0,0791	Hartline and Ferrell (1996)	0,64427	Fornell and Larcker (1981)	3,1258
Jöreskog and Sörbom (1996)	0,0779	Bagozzi and Yi (1988)	0,64173	Baron and Kenny (1986)	2,3819
Baron and Kenny (1986)	0,0773	Podsakoff et al. (2003)	0,63672	Kusluvan et al. (2010)	2,1638
Podsakoff et al. (2003)	0,0761	Baron and Kenny (1986)	0,63424	Bagozzi and Yi (1988)	2,1421
Hartline and Ferrell (1996)	0,0748	Jöreskog and Sörbom (1996)	0,62214	Baum (2006)	2,1417
Boshoff and Allen (2000)	0,0595	Heskett et al. (1994)	0,62214	Hofstede (1980)	2,1230
Kusluvan et al. (2010)	0,0534	Boshoff and Allen (2000)	0,61977	Heskett et al. (1994)	2,0459
Heskett et al. (1994)	0,0528	Kusluvan et al. (2010)	0,61278	Podsakoff et al. (2003)	1,9424
Huselid (1995)	0,0472	Davidson et al. (2011)	0,60821	Kusluvan and Kusluvan (2000)	1,8772
Singh et al. (1996)	0,0472	Allen and Meyer (1990)	0,60821	Hartline and Ferrell (1996)	1,7038
Davidson et al. (2011)	0,0466	Huselid (1995)	0,59926	Huselid (1995)	1,7011